

**METHOD FOR MONITORING A MOVING OBJECT**  
**AND SYSTEM REGARDING SAME**

**Abstract of the Invention**

5       A method and system for use in monitoring a search area includes  
the provision of a plurality of time varying distributions for each pixel of  
image data representative of a search area. The plurality of time varying  
distributions for each pixel are ordered based on a probability of the time  
varying distribution being representative of background or foreground  
10      information in the search area. For each pixel, an attempt to match update  
pixel value data to each of all of the plurality of time varying distributions  
provided for the corresponding pixel is performed to determine if the update  
pixel value data is representative of background or foreground information in  
the search area.

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